

# ENHANCED BITLOADING FOR MULTICARRIER COMMUNICATION CHANNEL

## ABSTRACT OF THE DISCLOSURE

[0069] Techniques for identifying an improved bitloading assignment for a multicarrier communication channel are provided. Generally, bit loadings of the sub-channels are equalized (either completely or partially) by selectively decrementing high bitload sub-channels until a desired degree of equalization between the sub-channel bit loadings is achieved. By reducing the bit loading of high bitload sub-channels relative to other sub-channels, the communication channel is effectively desensitized to non-stationary noise.